

Solution of the Poisson Equations for the Beryllium
Atom in the Two-Configuration Approximation, by
V. V. Kibartas, A. P. Iutsis, 11 pp.

RUSSELL, Eric per, Eric Russell, Teoret Fiz,
Vol XIV, No 3 (9), 1953, p 265. 370

Morris D. Friedman K-119
15.50

Scientific - Physics

OTB 67/Apr 55

22,981

Interference Radiation of Very Fast Electrons,
by M. I. Tsvet-Mikhailov, 11 pp.

RUSSIAN, part, Zhur Ekspir i Teoret Fiz, Vol XXV,
No 3(9), 1953, pp 296-306. 9095275

ABC S Tr-4773

Sci - Phys
Jan 62

178,961

14 004

GF-1

KALABUKHOV N. P.

Some peculiarities of electron motion in colored alkali halogenide
salt crystals showing photoconductivity

Einige Besonderheiten der Elektronenbewegung in gefärbten-
Alkalihalogenidsalzkristallen bei Photoleitfähigkeit

Zhur. Eksptl. i Teoret. Fiz., 25, 322-326 (1953)

German

E u r a t o m

Atomic Magnetic Moments of Ferromagnetics, by S. V.
Vonsovsky, K. B. Vlasov.

RUSSIAN, part, Zhur Zhur 1 Zhur Zhur, Vol XXV,
No 3(9), 1953, pp 327-340.

Morris D. Friedman

Sci. + Physics
Mar 59

48,173
83,017

Compton Scattering of Circularly Polarized Quanta
on an Electron With a Given Spin Direction, by
G. M. Menzelman, 7 pp.

RUSSIAN, per: Zhur. Zhur. i Teoret. Fiz., Vol XXV,
1953, pp 129-134. 5037648

REC UCHL Tr-415(L)

Sci - Phys
Jun 62

2003, 2003

A Universal Scheme for the Observation of Magnetic
Resonance in Atomic Nuclei, by S. D. Ovozdozer, N. M.
Yevkuzha, 9 pp.

RUSSIAN, no per, Uspehi Eksperimental'noi i
Teoreticheskoi Fiziki, Vol XIV, No 4, 1953, ~~MDXX~~
~~MDXXI~~ pp. 435-440.

Sci Tr Center RT-4643

Scientific - Physics
Jan 57 CHB

42, 287

Excitation Spectrum of Electronic Plasma in
a Periodic Field of Ions, by P. S. Zyryanov,
8 pp.

RUSSIAN, per, Zhur Ekaper i Teoret Fiz, Vol
XXV, 1953, pp 441-447.

ABC Tr 2333

Assoc Tech Serv

TR 0507R

Sci - Electronics, Physics

30,903

Self-Acceleration of a Charge Under the
Action of Its Own Field, by M. S. Matanzon,
8 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz,
Vol XXV, 1953, pp 448-451.

AEC Tr 2352

Assoc Tech Serv

Tr 0307R

See - Nuclear Physics 30,902

Magnetic Properties of Metals at Lo. Temperatures,
by B. I. Verkin, I. F. ~~XXX~~ Mikhaylov. 13 p.

RUSSIAN, per, Zhur Eksperimental'noy i Teoreticheskoy
~~XXX~~ Fiziki, Vol XXV, 1953, pp 471-47. 9689661

3 FTD-REF-3-51

Sci - Phys

May 83

Structure of Superconductors. IV. X-Ray and
Metallographic Investigation of the System
Bismuth-Palladium, by N. N. Zhuravley, G. S.
Tindanov, 10 pp.

RUSSIAN, per, Zhur Eksp. i Teoret Fiz, Vol XXV,
No 4, 1953, pp 485-490.

BIA R-1897

Sci
Aug 58

7c 56.3

81 2/3

Dependence of Some Luminescent Properties of the
Phosphors SrS-Ce, Sm And SrS-Ba, Sm Upon the
Wavelength of the Exciting Light, by Z. L. Morgenshtern
8 pp.

RUSSIAN, per, Zhur Ekspier i Teoret Fiz, Vol XXV,
1953, pp 491-497.

29,320

Z-187

CIA/FDD/

Scientific - Physics

Dec 55 CTS/DEX

Certain Questions in the Theory of Propagation
of Radio Waves in the Ionosphere in Connection
With its Erroneous Treatment by V. N.
Kessenikh, by V. L. Ginzburg, 12 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz,
Vol XXV, 1953, pp 498-508.

AEC Tr 2357

Sci - Electronics, ~~Radio~~ Physics

30,089

Accuracy of the Microwave Frequency Standards,
by B. D. Gaidov.

RUSSIAN, no par, Zhur Ekspri i Teoret Fiz, Vol
XXV, 1953, pp 509, 510.

AEC Tr 2276

0-103

Assoc Tech Svc 06G7R

Scientific - Physics
Nov 55 CIB/DEX

28,451

A New Method in the Theory of Interacting Fermi
Particles, by D. N. Zhurav, 18 pp.

RUSSIAN, per, Zhur Zhur i Teoret Fiz, Vol XXV,
No 5, 1958, pp 548-560.

Sci Mus Lib Tr 57/0794
A.W. & E. Tr 1

Sci - Physics
Jul 57

49,819

Kinetic Theory of a System of Interacting
Particles, by A. B. Glauber, 12 pp.

RUSSIAN, per, Zhur Ekspol' i Teoret Fiz, Vol XXV,
1953, pp 560-570.

28,709

AEC Tr 2292

Associated Tech Services Tr

Scientific - Physics

Nov 55 CTS/MSX

A Study of the Effects Produced by the
Relative Motion of Ions, by A. P. Malinovsky,
9 pp.

RUSSIAN, per, Zhur Khoptl' i Teoret Fiz, XXV,
1958, pp 596-604.

AKC Tr 2325
Assoc Tech Serv
Tr 0207R

29,497

USSR
Sci - Physics

Theoretical Determination of the Isotope Shift in
the Spectrum of the Ti^{4+} Ion, by
A. P. Yutsis, *AA. SSSR Akad. Nauk*, 8 pp.
RUSSIAN, per *Zhurnal Teoret. Fiz.*, Vol XXV,
No 6 (1953), pp 261-277. 9692791
Amar Meteorol Soc.
T-11-406

Sci - Phys
Jun 64

261, 277

On the Study of Electron Interaction with a
Phonon Field by the Intermediate Coupling Method,
by S. V. Tyablikov, 17 pp.

RUSSIAN, bino per, ~~Star Reader 1~~ ~~Source File~~,
Vol XXV, No 6(12), 1953, pp 688-697.
CIA D 153565

Teoret

Morris D. Friedman T-112

Scientific - Physics

CIN 67/Apr 55

72, 754

Application of Polaron Representations to the
Theory of the Thermo-electric Emission of Polar
Semiconductors, by M. D. Morgulis, K. B. Tolpygo,
10 pp.

RUSSIAN, Zhur Kasper 1. Teoret Fiz,
Vol XXV, No 6(12), 1955, pp 710-722.
GTR 10576 909 2787

Morris D. Friedman 11-111

Scientific - Physics

CTS 62/Apr 55

20, 755

The Influence of the Interaction Between Particles
on the Ionization Equilibrium in Thermally Ionized
Gas, by B. L. Timan, 76 pp.

RUSSIAN, no par, Zhur Ix Ekspoz 1 Teoret Fiz,
Vol XXV, 1953, pp 733-737.

AEC Tr 2279

ASSOS Tech Svc 0407R

Scientific - Physics
Nov 55 CTS/DEX

28,446

The Use of a Gas Discharge Tube With a Point Cathode for the Visual Determination of the Shape of the Lines of Force of an Intense Magnetic Field, by M. Ardanne, 3 pp.

RUSSIAN, biblio par, Zhur Eksper i Teoret Fiz., Vol XIV, 1953, pp 749, 750.

ABC Tr 2248

Assoc Tech Sv Tr 0067R

Scientific - Physics
OTS 73/Oct 1955

27,865
DS. 1. 4, T-966

Emission of Photons and Electron
Positron Pairs in a Magnetic Field,
by I. B. Klepikov.

RUSSIAN, per, Zhurnal Eksperimental'noy
i Teoreticheskoy Fiziki, Vol 26,

No 1, 1954, pp 19-34.

UDC 537.874.610

Sci/Phys

Oct 68

369,051

Migdal, A.
 QUADRUPOLE AND DIPOLE GAMMA RADIATION
 OF NUCLEI (tr. by S. Shewchuck. Apr 62, 14p.
 6 refs.
 Order from DTIC or SLA UCRL Trans-822(L)

Trans. of Zhurnal Eksperimental'noi i Teoreticheskoi
 Fiziki (USSR 1954) 17: 157-171; 17: 171-180

DESCRIPTION: *Nuclei. *Gamma rays. Nuclear mo-
 ments. *Quadrupole moments. *Dipole moments. Experi-
 ments. Energy. Transition mechanism. Atomic properties.

The order of magnitude of the matrix elements of di-
 pole and quadrupole radiation is evaluated and it is
 explained why the intensity of the corresponding
 transitions (with energy around 1 Mev) possess the same
 order of magnitude. For energies 2-1 Mev the intensity
 of the dipole transitions may be much greater than the
 intensity of the quadrupole transitions. (Migdal)

63-13819

I. Migdal, A.
 II. UCRL-Trans-822(L)
 III. Lawrence Radiation Lab.,
 U. of California,
 Berkeley

63-13958

Artifov, U. A., Ayukhanov, A. Kh., and
 Starodubtseva, S. V.
 METHOD FOR INVESTIGATING THE SECONDARY
 EMISSION UPON BOMBARDMENT OF THE CONDUCTORS WITH IONS (O Metodike Issledovaniya Vtorichnoi
 Emisii pri Bombardirovke Provodnikov Ionami) tr. by
 Lydia V. V. Apr 62, 15p. 4 refs.
 Order from OTS or SLA \$1.60 AEC-tr-5066

I. Artifov, U. A.
 II. Ayukhanov, A. Kh.
 III. Starodubtseva, S. V.
 IV. AEC-tr-5066
 V. Argonne National Lab.
 III.

Trava. of Zhurnal Eksperimental'noi i Teoreticheskoi
 Fiziki (JSEF) 1959, v. 25, no. 8, p. 714-722.

DESCRIPTORS: *Ion bombardment, Ion beams,
 *Secondary emission, Measurements, Targets, Measur-
 ing devices (Electrical and electronic), *Oscillographs,
 Modulation, Circuits.

The deficiencies of the present methods for investigating
 the secondary emission under the effect of the ionic
 impact against the target, are discussed. Oscillographic
 (Physics-Electronics, TT, v. 9, no. 7) (over)

Office of Technical Services

Diffraction by a Perfectly Conducting Half-Plane of
Electromagnetic Waves Emitted by an Arbitrarily
Oriented Electric and Magnetic Dipole, by
Yu. V. Vankhalaurov, 22 pp.

RUSSIAN, Trans per, Zhur Eksp Teor Fiz, Vol XXVI,
No 1, 1954, pp 3-18. CIA D 197022

AF Cambridge Research Center
Tech Tr No 1 30,390

Morris D. Friedman

Scientific - Physics

Jan 56 CTS/DEX

SEA R 1141

(FDB 22521)

Abstracts From 'Journal of Experimental and Theoretical Physics', Vol. 14, pp. 1-12.

RUSSIAN, no par, Zhur Eksp. i Teoret. Fiz., Vol XXVI, No 1, Moscow, Jan 1954, pp 3-12.

USBR

801 - Physics

CIA

Excluded in B

(Kohmann)

Multi-Electron Considerations of an Electron
(hole) in Perturbed Crystals, by T. I. Liberberg,
K. E. Tolpygo, 12 pp.

RUSSELL, bino per, Zhur Eksp. i Teoret. Fiz.,
Vol XVI, 1954, pp 35-41. CIA D 193573

Morris D. Friedman
\$6.00

Scientific - Physics

SLA R-2069
CIB 67/ADT 55

22,945

The Influence of the Earth's Magnetic Field on the
Interaction of Radio Waves in the Ionosphere, by I. Ix
M. Vilenchik, 26 pp.

RUSSIAN, mime per, Zhur Ekaper i Teoret Fiz, Vol XXVI,
No 1, 1956, pp 42-56.

REC'D
ATIC Y-TB-9090/III

Sci - Geophysics
Mar 1957 OTB

45, 048

The Self-Excitation of Oscillations in a Gas
Discharge at High Pressures, by M. E. Gertsen-
stein.

RUSSIAN, per, Zhur Eksp. i Teoret Fiz, Vol
XVI, No 1, 1954, pp 57-63.

Assoc Tech Services

RJ-324

32, 322

Sci - Physics
Apr 56

Breakdown of Small Air Gaps, by I. E. Balygin,
10 pp.

RUSSIAN, bino par, Zhur Eksper i Teoret Fiz,
741 DZVI, 1954, pp 98-105.

AEC Tr 2242

Assoc Tech Sv Tr 9066R

Scientific - Physics
CWS 73/Oct 1955

27859

ACSL 20 1954
(922,360)

Ionization Accompanying the Breaking Up of
Droplets in an Electric Field, by V. N.
Kuchnik

RUSSIAN, also per, Zhur Ekspert i Teoret Fiz
Vol XXVI, 1954, pp 109-114.

AEC Tr 2334
AECOC Tech Sv 87G6R

Scientific - Physics
Jan 56 GTS

29,732

Concerning the Connection Between the Absorption
Spectra of Excited Metals and a Type of Lattice of Basic
Substances, by P. M. Koshachenko, 8 p.

RUSSIAN, per, Zhur: Elmer i Teor Fiz, 1954, Vol XVI,
No 1, pp 120-123.

SLA 59-20394

Sci
Apr 60
Vol LXX, No 2

113,617

Interpretation Of the Vibration Spectra Of Silicates
and Silicate Glasses, by Kolesova.

RUSSIAN, per, Zhurnal Eksperimental'noi I Teoretich-
eskoj Fiziki, Vol XXVI, 1954, pp 124-127.

CSIRO

OTS- 11-64-10568

Oct. 62

Acceleration of Charged Particles by a Moving
Magnetized Medium, by A. A. Logunov, Ya. P.
Terletskiy, 10 pp.

RUSSIAN, bino per, Zhur Eksper i Teoret Fiz,
Vol XXVI, 1954, pp 129-138.

ABC Tr 2222
Columbia Tech Tr

Scientific - Physics
CTS 73/Oct 1955

27,142

Zone Theory of One-Dimensional Liquid Model, by
A. N. Gubancov, 16 pp.

RUSSIAN, per, Zhur Report i Teoret Fiz, Vol XXVI,
No 2, 1974, p 13, 9079624

AEC Tr-4737

Sci
Aug 61

187, 882

R Equations de Champ "Self Consistent" du Noyau,
Compte Rendu des Forces Electrostatiques, by
A. S. Kompaneys, 10 pp.

RUSSIAN to FRENCH, per, Zhur Eksper i Teoret Fiz
SSSR, Vol. XXVI, No 2, 1954, pp 153-158. 9091218

REVERSE TRANS
CHA Tr R-1497

Sci
18 Sep 62

Investigation of the Energy Spectrum of an
Electron in an Ionic Semiconductor in the Presence
of Electric and Magnetic Fields, by M. I. Klinger,
10 pp.

RUSSIAN, bimo per, Zhur Ekspri i Teoret Fiz,
Vol XXVI, 1954, pp 159-167

AEC Tr 2218
Columbia Tech Tr

Scientific - Physics
CIS 73/Oct 1955

27,146

Investigation of a Polaron Semiconductor in
the Presence of Electric and Magnetic Fields,
by M. I. Klinger, 6 pp.

RUSSIAN, biblio per, Zhur Eksp. i Teoret. Fiz.,
Vol XXVI, 1954, pp 163-172.

AEC Tr 2244

Scientific - Physics
CIS 78/Oct 1955

27,861

On the Problem of Distribution Functions
for Systems With Coulomb Interactions, by
E. A. Strel'tsova, 6 pp.

RUSSIAN, bimo per, Zhur Eksper i Teoret Fiz,
Vol XXVI, 1954, pp 173-178.

AEC Tr 2245

Scientific - Physics
CES 73/Oct 1955

27,862

The Application of Markov's Method to the Problem
of Multiple Losses, by V. V. Chavchanidze, 7 pp.

RUSSIAN, biblio per, Zhur Eksper i Teoret Fiz,
Vol. XXVI, 1954, pp 179-184.

ABC Tr 2243

5th Oct 1955

Scientific - ~~IMMENSE~~ Physics.
CMB 73/Oct 1955

87,860

1
Markov's Method and Problems in the Fluctuation
of Energy Losses Incident to a Limited
Number of Collisions, by V. V. Chavchanidze

RUSSIAN, no per, Zhur Zhur Ekaper it i Teoret
Fiz, Vol XXVI, No 2, 1954, pp185-188.

AEC 2256
Columbia Tech Tr
AP14 - \$7.50

Scientific - Physics
Nov 55 CTS/TEX

28, 433

See Spec 11-58/2157

Correlation Functions in the Theory of the
Brownian Movements, by P. I. Kuznetsov, R. I.
Stratonovich, V. I. Tikhonov, 20 pp.

RUSSIAN, bimo per, Zhur Ekaper i Teoret Fiz,
Vol XVI, 1954, pp 189-207.

AEC Tr 2255

Scientific - Physics
CIS 73/Oct 1955

27,868

12-440

US-14

VOLKOV D. I. CHECHERNIKOV V. I.

Dependence of the magnetostriction of ferromagnetic alloys
on temperature

Zhur. Eksptl. i Teoret. Fiz., 27, No. 2, 208-214 (1954)

RJ-1307, \$ 13.25 - English

E u r a t o m

Study of Submicroscopic Objects by Small
Angle Scattering of X-Rays, by V. M. Genkin,
8 pp.

1
RUSSIAN, bimo per, Zhur Eksp¹ Teoret Fiz,
Vol XXVI, No 2, 1954, pp 224-227.

CIA/TID/CX-110
NOT RELEASABLE TO FOREIGN NATIONALS

Scientific - Physics

33,783
Apr 56 CTS/DSX

INT: INTERNAL USE ONLY

Application of the Thomas-Fermi Method to
Intranuclear Oscillations, by S. G. Ryzhanov,
10 pp.

RUSSIAN, bino per, Zhur Eksper i Teoret Fiz,
Vol. XXVI, No 3, 1954, pp 264-269.

Morris D Friedman *R-113*
\$5.00

Scientific - Physics

CIS 69/Jun 55

24735

Comparative Investigation of the Absorption of Mono-energetic positrons and Electrons in Copper and Cadmium, by K. A. Baskova, V. M. Gorbachev, 7 pp.

RUSSIAN, Izv. Akad. Nauk SSSR, Ser. Fiz. Nauk, Vol XXVI, No 3, 1956, pp 270-274.

Sci Tr Center RT-4221

Sci - Physics

41,553

Intensity of Luminescence of Lanthanophor Powders,
by H. A. P. Ivanov.

MEMORANDUM, for, Zhang Buzhen 1. Tuolet Pie, Vol. LXVI,
No. 8, 1954, pp. 875-880.

MAIL M 89135

070

Exd. - 174374
May 63

229,354

The Theory of Magnetic Properties of Metal-Ammonia
Solutions, by M. P. Deigen, 17 pp.

RUSSIAN, ger, Zhur Ekspier i Teoret Fiz, Vol XXVI,
1954, pp 293-299.

ABC Tr 4257

Sci Phys
Gen 60

154,791

Optical Properties and Electrical Conductivity of
Metal-Ammonia Solutions, by M. F. Deigen, 21 pp.

RUSSIAN, par, Zhur Eksp i Teoret Fiz, Vol XXVI,
1984, pp 300-306.

AEC Tr-4256

Sci - Phys
Jun 84

154,798

Polarizing Excitons in the KCl Type Crystals,
by I. M. Dykman.

RUSSIAN, per, Zhur Eksper i Teoret Ed Fiz.
Vol XXVI, No 3, 1954, pp 307-316.

NRL Tr 868

Sol. - Phys

Nov 61

SLA TF-64-16631

178, 191

Report: Measurements of the Lifetime of Excited
Atoms, by M. Ardonne, 14 pp.

FORN. J. AM. PHYS., 22, 1954, pp. 352-360.

BLA R-1755
(ARC Tr 8987)

68,339

On the Nature of Ferroelectricity in Rochelle Salt,
by K. N. Karman, 21 pp.

RUSSIAN, per, Zhur Ekspri Teort Fiz, Vol XXVI, No 3,
Mar 1954, pp 370-376.

SLA Tr R-883

Sci - Electricity

52,377

Sep 57

Theory of X-Ray Absorption Spectra, by A. I. Kostarev,
I. B. Borovskiy, 11 pp.
RUSSIAN, part, Zhur Ekspri i Teoret Fiz, Vol XXVI, No 3,
1944, pp 377-384.

JPRS 23510

Sci-Mat & Met
Mar 64

251,523

On the Cherenkov Radiation of Cosmic Particles in
the Atmosphere, by V. I. Goldanskii, G. E. Zhdanov,
13 pp.

RUSSIAN, see per, Zhur Eksp. i Teoret. Fiz, Vol
XXVI, No 4, 1954, pp 405-416.

Sci Mus Lib - 56/0043

A.B.E.E. Barwell Tr 536

Sci - Nuclear Physics, Geophysics 33, 789

May 1956

On the Theory of Paramagnetic Resonance in
Rare-Earth Metals, by S. A. Al'tshuler, 15 pp.

RUSSIAN, also per, Zhur Eksper i Teoret Fiz,
Vol XXVI, 1954, p 439

Morris D. Friedman
\$7.50

USSR

Scientific - Physics

CIS 65/Feb 55

21,323

Resonance of Paramagnetic Absorption in Rare-
Earth Metals at Centimeter Waves, by S. G.
Sulzhov, 12 pp.

RUSSIAN, also per, Zhur Eksp: i Teoret Fiz,
Vol. XXVI, 1954, p. 487.

Morris D. Friedman
\$6.00

USCIB
Scientific - Physics

CT9 65/Feb 55

21324

Electrical Schemes for Immediately Finding the
Distribution Function of Secondary Electrons
With Energy, by R. D. Gorny, S. M. Rachevich

RUSSIAN, also per, Zhur Fekker i Teoret Fiz,
Vol XXVI, 1954, p 454.

US Dept of Commerce
Nat'l Bureau of Standards

Sci - Nuclear Physics
Dec 56 CTS

44,182

Determination of the Absorption Coefficient
of Powdered Phosphors, by V. V. Antonov-
Romanovskiy,
RUSSIAN, per, Zh Eksperim i Teoret Fiz, Vol
XXVI, No 4, 1954, pp 459-472.
ATS RJ-4731

Sci-Chem
Jul 67

329,154

Reflection Spectra of Coloured Scattering
Objects, by I. Zhidkova, Z. V.

RUSSIAN, per, Zhur: Eksp. i Teoret. Fiz.,
Vol. XXVII, 1954, pp 458-466.

OSIRO

Bel - Phys
Aug 62

207,439

Reflection Spectra of Coloured Scattering
Objects III, by O. F. Grin, E. I. Stepanov.

Moscow, USSR, Nauka Press, 1978, 110 p.,
Vol. XVII, 1978, pp 467-576.

CSHO

SLI - Ref
Aug 68

207, 040

(FID 22527)

Abstracts from "Journal of Experimental and Theoretical
Physics," 18 pp.

RUSSIAN, no per, Zhur. Zhurper i Teoret. Fiz., Mayx
Moscow, May 1954.

USSR

Scientific - Physics

CIA

(Kotmann)

Dependence of the Absorption and Luminescence
Spectra of the Phosphor ZnS-Cu Upon the Copper
Content, by M. E. Alentsev, A. A. Cherepnev,
7 pp.

RUSSIAN, part, Zhur Khimii i Teoret Fiz, Vol XXVI,
1954, pp 473-478.

23, 507

CIA/FDD/T-146

Scientific - Physics

May 55 CTS

Paraday Effect at Centimeter Waves, by N. Neprimerov,
2 pp.

RUSSIAN, per, Zhur Ekspier i Teoret Fiz, Vol XXVI,
1954, pp 511-

26,868

AEC Tr 2210

Assoc Tech Sv Tr 9166R

Sci Mus - 10 55 12

Scientific - Physics

Sep 55 CTS

On the Energy Spectrum of Electrons in Polar
Crystals, II, by S. V. Tyablikov, 11 pp.

RUSSIAN, per, Zhur Eksp Teor Fiz, Vol XXVI, 1954,
p 545. — 268

Morris Friedman T-108

Scientific - Physics

Jan 55 CTS/DEX

20,904

35,50

Determination of the Energy Spectrum of the Bose
System by its Specific Heat, by I. M. Lifshits,
7 pp.

RUSSIAN, per, Zhur Eksp. i Teoret Fiz, Vol XXVI,
No 5, 1954, pp 551-556.

Sci. Lib. 55/1322

26 762

Scientific - Physics

Sep 55 CTR

The Theory of Transport ~~and~~ Equations in Strong
Electric Fields, by G. M. Avak'yants,

RUSSIAN, per, Zhur Eksp. i Teoret Fiz, Vol XXVI,
1954, pp 562-575.

26; 789

AEC Tr 2203
Assoc Tech Sv Tr 3036R

Scientific

Scientific - Physics

Rep 55 CTB

Expression For the Interaction of a System of
Particles With the Electromagnetic Field, by
Yu. K. Kuchlov, 9 pp.

RUSSIAN, per, Zhur Eksp. i Teoret Fiz, Vol XXVI,
1954, pp 576-584.

26, 795

AEC Tr 2200

Assoc Tech Bv Tr 3106R

Scientific - Physics, Electricity Sep 55 CTS

Ostroumov, G. A.
ELECTROSTATIC CONVECTION IN ELECTROLYTES,
[Jan 64] 13;
Order from: ATS \$16.65

ATS-03Q73R

Trans. of Zhurnal [eksperimental'noi]
Teor[eticheskoi] Fiziki (USSR) 1954, v. 26, no. 5,
p. 585-597.

DESCRIPTORS: Electrolytes, *Heat transfer,
Electrostatics, *Thermal radiation.

(Physics--Thermodynamics, TT, v. 11, no. 9)

TT-64-12430

- I. Ostroumov, G. A.
- II. ATS-03Q73R
- III. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

Some Speculation in the Behavior of Detail Hunted by
High-Rough Animals (unpublished), by G. H. Lebedev, G. M. M.
B. Khandakova, 10 pp.

RUBENSON, Peter, "The Computer", Scientific 1954, Vol XXVI, 1954, pp 629-630.

ABC/EAL-2025

132-111-10000

Jan 30

OTS TT-62-20000 (REGISTRATION + FEE)

The Symplectometrical Theory of the
Fundamental Nuclear Interactions. I. π -Nucleon,
Nucleon-Nucleon, by H. H. Feshbach,
The A. G. L. Land, V. H. Feshbach

RESEARCH, also per, Eber Eber J. Feshbach, Vol
1954, pp 649-657.

AEC Tr 2371

Scientific - Nuclear Physics
For 33 CNE/Gen

36,139

On the Theory of the Transport Equations in Strong
Electric Fields, Part II, by O. N. Avak'yants.

RUSSEAN, no per, ~~Engl~~ Engl Engl i Teoret Fiz, Vol XXVI,
No 6, 1954, pp 668-579.

Assoc Tech Sr RJ-544
\$13.50 (\$6.50)

Sci - Physics
Apr 1957 CFB/dex

46,824

Energy Correlations in a Spatially Dispersed
Medium, by M. E. Gertsenshtein.

RUSSIAN, per, Zhur Eks. i Theor. Fiz., Vol XXVI,
No 6, 1954, pp 680-683.

*SLA

Sci

Mar 63

On the Thermodynamic Theory of Antiferroelectrics
by G. A. Smolenskiy, V. K. Kozlovskiy, 22 pp.

RUSSIAN, per, Zhur Elekt i Teoret Fiz, Vol
XXVI, No 6, 1956, pp 684-696.

SLA Tr R-739

Sci - Physics

Aug 57

50,584

Anomalous Electron Emission of Tungsten Heated by
a High-Density Current Pulse, by S. V. Lebedev,
S. R. Khalkin, 11 pp.

RUSSIAN, Tr. Zhur Eksp'tl' i Teoret. Fiz., Vol. XXVI,
1954, pp 723-733.

AEC Tr 2602

Sci - Physics
Nov 56 CNE

40, 468

Some Properties of Solutions of He^3 in He^4 Part 3,
Vapour Pressure, by B. N. Eselson, 9 pp.

RUSSIAN, per, Zhur Eksp. i Teoret Fiz, Vol XXVI,
pp 744-750, 1954.

SIA R-1625

Sci - Chem
Aug 58

70,587

Fradkin, E. S.
ON RENORMALIZATION IN QUANTUM ELECTRO-
DYNAMICS. [1962] [p]. 3 refs.
Order from ODS or SLA \$1.10 62-10647

Trans. of Zhurnal [Experimental] i Teoretich-
eskoj Fiziki (USSR) 1954, v. 26, no. 6, p. 751-754.

DESCRIPTION: *Electrons, *Photons, *Perturbation
theory, *Green's function, Integrals, Operators
(Mathematics), Differential equations.

The equations for the Green's function are formalized
so that they contain only renormalized quantities ex-
pressed in terms of experimental values of the charge
and mass of the electron. The renormalization is
carried out in very general form in order that the re-
sults may be carried over to mesodynamics without
difficulty.

(Physics: Theoretical, TT, v. 8, no. 5)

62-10647

1. Title: Quantum electro-
dynamics
2. Title: Renormalization
1. Fradkin, E. S.

Office of Technical Services

On Fluctuations in an Oscillator With Inertial
Nonlinearity, by M. E. Zhabotinskiy, 4 pp.

RUSSIAN, per, Zhur Nauchn Teorot Fiz, Vol XXVI,
1954, p 758.

Marble D. Friedman
\$2.00

Ecl • Physics
Mar 59

84,394

Kaganov, M.I., and Azbel, M.Ya.
CONDUCTIVITE DES COUCHES MINCES METALLI-
QUES (Conductivity of Thin Metallic Films). 6p.
CNRS-X 318
Order from CTS, ETC or CNRS 50,80 TT-62-28086

Trans. in French of *Journal Experimental et
Teoreticheskoi Fiziki* (USSR) 1954, v. 27, no. 6,
p. 762-763.

DESCRIPTORS: *Metals, *Thin films, *Electrical
conductance.

Physics -- Electricity TT v. 11, no. 61

TT- 62-28086

I. Kaganov, M.I.
II. Azbel, M.Ya.
III. CNRS-X 318
IV. Centre National de la Recherche
Scientifique, Paris

Office of Technical Services
European Translation Centre

Effect of Ionic Conductivity on the Deviation From
The Reciprocity Law for Photographic Emulsions, by
A. L. Kartuzhanskiy, 6 pp.

RUSSIAN, for, Zhur Esperi i Teoret Fiz, Vol XXVI,
No 6, 1954, pp 763-764.

CIA/X-1798

USSR
Sci - Physics

26,340

Gertsenshtein, M. E.
ENERGY CORRELATIONS IN A SPATIALLY DIS-
PERSED MEDIUM. [1963] 6p. 4 refs.
Order from CTS or SLA \$1.10

63-14449

Trans. of Journal of Experimental and Theoretical Physics
[Fizika] (USSR) 1963, v. 20, no. 6, p. 680-683.

DESCRIPTORS: *Energy, *Electromagnetic theory,
Electrons, Plasma physics, Tensor analysis.

(Physics--Electricity, TT, v. 10, no. 6)

63-14449

I. Gertsenshtein, M. E.

Office of Technical Services

Determination of Electron Trap Depths in
Crystal Phosphors, by I. A. Purfianovich.

RUSSIAN, per, Zhur Ekspert i Teoret Fiz,
Vol XXVI, No 6, 1954, pp 696-703.

Assoc Tech Services

RJ-323

33, 322

Sci - Physics, Electricity

Apr 56

Spectral Absorption in Photographic Emulsions, by
S. G. Granishin, 17 pp.

RUSSIAN, per, Zhur Ekspri i Teoret Fiz, Vol XXVI,
No 6, 1958, pp 736-743.

CIA/X-1807

USSR
Sci - Physics

26, 233

On Fluctuations in an Oscillator With Inertial
Nonlinearity, by M. E. Zhabominskiy, 4 pp.

RUSSIAN, 1120 per, Zhur Elaper i Teoret Fiz,
Vol XXVI, 1954, p 758. 759.

Morris D. Friedman
\$2.00

USBR

Scientific - Physics

CMB 63/Feb 55

2/ 306

Method of Measuring Absorption Coefficients in
Microwave Radio-Spectroscopy, by A. M. Prokhorov,
A. I. Barchukov, 1. 77.

RUSSIAN, bimo per, Zhur Eksp. i Teoret Fiz.
Vol XXVI, 1954, p 76.

P-124
Morris D. Friedman
\$2.00

USSR
Scientific - Physics

CTB 65/Feb 55

21,280

Russian Physical Literature III, 83 pp.

RUSSIAN, per Zhur Ekaper i Teoret Fiz,
Vol XXVII, 1954; Vol XXVIII, 1955; Uspekhi
Fiz Nauk, Vol LIV, 1954, Encl to ATI IR-
839-55. CIA C 37820

AF 664607

Scientific - Physics
CTS 70/Jul 55

25,355

Low-Frequency Plasma Oscillations, by G. V. Gordeyev,
6 pp.

RUSSIAN, per, Zhur Skopet A Teoret Fiz, Vol XXVII,
1954, pp 19-23.

*U.S. Dept of Commerce
Do. of the State
Natl. Bureau of Standards*

AEC Tr 2199

Assoc Tech Sv Tr 2806R

26, 794
Scientific - Physics

Sep 55 CTS

Excitation of Plasma Oscillations, by G. V.
Gordeyev.

RUSSIAN, per, Zhur: Paper 1 Teoret Fiz, Vol
XXII, No 1, pp 21-28, 1954.

Assoc Tech Services

RJ-325

33. 3 x 7

Sci. - Physics

Apr 56

Dielectric Hysteresis in BaTiO_3 Monocrystals,
by M. S. Novosil'tsev, A. L. Khodakov.

RUSSIAN, per, Zhur Eksp. i Teoret Fiz, Vol
XXVII, No 1, 1954, pp 94-96.

Assoc Tech Services
RJ-327

Seri - Physics

33,327

Apr 56

The Striking of Electrical Discharges in Gases
on Alternating Current at Audio Frequencies in
Tubes With External and Internal Electrodes, by
N. A. Kuptsov, N. A. Popov, 6 pp.

RUSSIAN, bimo per, Zhur Kuptsov i Teoret Fiz,
Vol XXVII, 1954, pp 97-102.

ABC Tr 2219

Assoc Tech Sv RJ-237

Scientific - Physics
CTB 73/Oct 1955

27,147

Instability of Tangential Discontinuity in a
Compressible Medium, by S. I. Syrovatskii, 4 pp.

RUSSIAN, per, Zhur Nispti' i Zhoset Fis, Vol XXVII,
1954, pp 121-123.

ABJ # 2603

Sol - Physics
Nov 56 CTS

40,469